CE 0537

ID:xxxxxxxxxx
Revision:01

Do not reuse

Keep cool

Keep dry

Caution

IVD *In Vitro* Diagnostics Medical Device

Read Instructions carefully

TysonBio

Blood Glucose Monitoring System

User's Manual

For *in vitro* diagnostic use only

GLUCOSE Monitoring System VIGOR

Customer Service

If you have any questions or concerns regarding this product and or its operation, or any attempt to correct a problem fails, please call our Customer Service. Our trained specialists will be happy to assist you, train you, or even reaffirm your results.

Customer Service Hotline:
+886-37-585998
our office hours are from
8:30 am (GMT0030) - 5:30 pm (GMT0930)
or E-Mail us at
service@tysonbio.com

When you call our Customer Service, please have your TysonBio VIGOR Meter, TysonBio VIGOR Test Strip and all other system supplies available. This will allow us to answer any of your questions with speed and efficiency.

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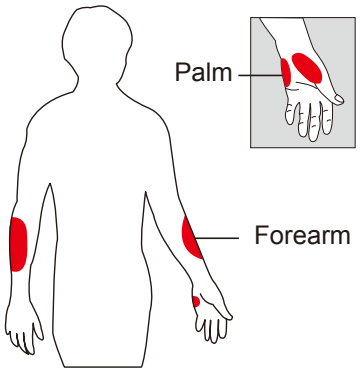
Customer Service

Important Information

Available Alternative Sites Testing : Palm and Forearm

TysonBio VIGOR Blood Glucose Monitoring System provides you alternative sites testing (AST). This system provides you to test on the palm and the forearm with the equivalent results to fingertip testing.



There are limitations for doing AST. Please consult your healthcare professional before you do AST.

Alternative site results differ from fingertip results when glucose levels are changing rapidly such as after a meal, after taking insulin, during exercise, or when you are ill or under stress. Use blood from a fingertip rather than an alternative site if:

- you think your blood glucose is low,
- you don't regularly have symptoms when your blood glucose is low, or
- how you feel doesn’t match the results from the alternative site.
- When you have just taken insulin, or any time during or after exercise.
- When there are unknown variables occurring in your day, such as illness.
- Whenever you are about to drive.

CAUTION:

1. Physiologic differences in the circulation between the finger and other test sties like the forearm and palm may result in differences in blood glucose measurements from the other test sites and your fingertips. Changes in blood glucose may be observed in finger blood samples sooner than blood samples from the forearm and other alternate sites. Rub the alternate test sties about 20 seconds before lancing. If you are testing for hypoglycemia (low blood glucose), or if you suffer from hypoglycemia unawareness, we recommend that you test on your fingertips.

2. Talk to your doctor to see if alternative site testing is right for you. With a little bit of education, you can give your fingertips a rest and maybe test more often than you do now. For people with diabetes, more frequent testing is a good thing. Just remember: any time you want to be sure of an accurate, up-to-date blood glucose reading, test on your fingertip.

3. We strongly recommend you do AST **ONLY** in the following intervals:
   - In a pre-meal or fasting state (more than 2 hours since the last meal).
   - Two hours or more after taking insulin.
   - Two hours or more after exercise.

- Low or high blood glucose readings can indicate a potentially serious medical condition. If your blood glucose reading is unusually low or high, or if you do not feel the way your reading indicates, repeat the test with a new test strip. If your reading is not consistent with your symptoms or if your blood glucose result is less than 60 mg/dL (3.3 mmol/L) or higher than 240 mg/dL (13.3 mmol/L) you should contact your healthcare professional and follow his or her treatment advice.

- Any change or administer of medication based on the TysonBio VIGOR blood glucose test results without the consent and advice of a physician or healthcare professional is not recommended.

- Severe dehydration and excessive water loss may cause false low results. If you believe you are suffering from severe dehydration, consult your physician immediately.

Introduction

Thank you for choosing the TysonBio VIGOR Blood Glucose Monitoring System, the latest advancement in biosensor technology. As you already know, Self monitoring of blood glucose (SMBG) is a necessary part of the treatment plan for people with diabetes mellitus. The Diabetes Control and Complications Trial (DCCT) has confirmed the significant benefits from SMBG when practiced as part of a larger intensive strategy to tightly control blood glucose concentrations.

Adapted for its ease of use and quick response time, the TysonBio VIGOR System has the ability to process accurate results utilizing only a small volume of blood for *in vitro* diagnostics. The TysonBio VIGOR Blood Glucose Monitoring System is intended for use in the home and in professional settings to monitor whole blood glucose levels obtained from the fingertip, palm and forearm. This is an over the counter (OTC) product.

Please read the entire User's Manual carefully before using this product.

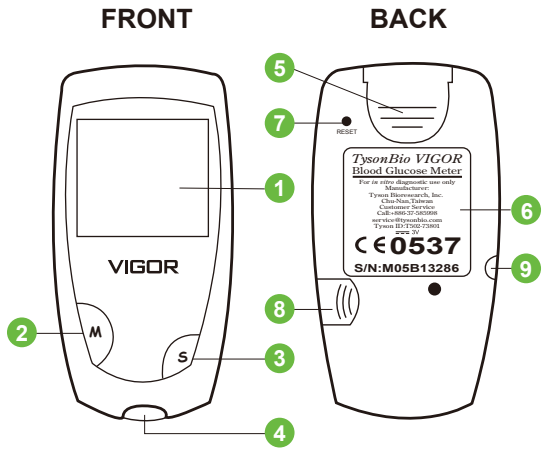
About the Product

Your TysonBio VIGOR System is made up of several components. This booklet is designed to guide you through the operation of the system with detailed directions and pictures. Your TysonBio VIGOR System contains:

- TysonBio VIGOR Meter
- One vial of TysonBio VIGOR Test Strips (10 strips)
- One Glucode Chip (outside the strip vial)
- One Lancing Device (Option)
- Ten Lancets (Option)
- One Control Solution (Option)
- One carrying case
- User's Manual
- Log book (Option)
- Quick Reference Guide

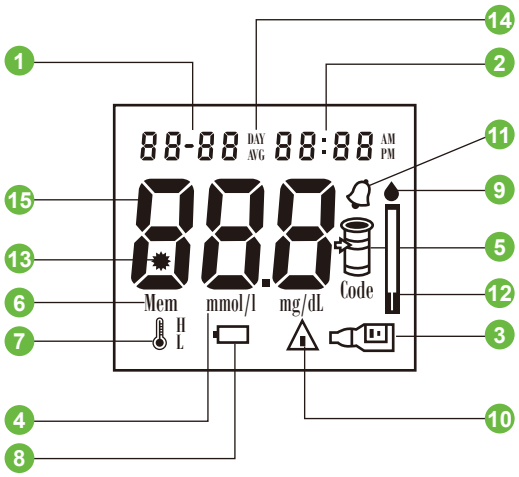
Note: 25, 50 test strips vial can be purchased individually.

About the TysonBio VIGOR Meter



1. **Display** Your test results are displayed here. The large, easy to readscreen guides you through the test by using numbers and symbols.
2. **M Button** The **M** (mode) button is used to set the year, month, day and time, enters the memory mode to show the consecutive 7/14/30-day average results, and turns the Meter on and off.
3. **S Button** The **S** (select/set) button is used to select year, month, day, time, memory of results and control solution mode.
4. **Test port** This is where you insert the Test Strip into the Meter.
5. **Battery Cover**
6. **Label**
7. **Reset Button** Press this button to re-set the system.
8. **Glucode Chip** Insert the Glucode Chip for coding.
9. **Data port** Connect interface cable to transfer data.

About the TysonBio VIGOR Meter Display

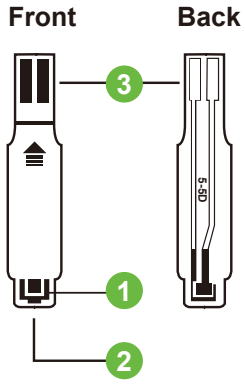


1. **DATE**
2. **TIME**
3. **CONTROL SOLUTION TEST** Appears when doing a control solution test and marking the result as a control solution test.
4. **UNITS of MEASUREMENT** Unit of mmol/l or mg/dL will appear with the test result.
5. **CODE SYMBOL** Appears with the code number of the Test Strips currently in use.

6. **MEMORY SYMBOL** Indicates in memory mode.
7. **TEMPERATURE MESSAGE** Appears if your meter is out of operating temperature range.
8. **BATTERY SYMBOL** Appears when the battery is low or must be replaced.
9. **BLOOD DROP SYMBOL** Flashes when it is ready to apply sample to Test Strip.
10. **WARNING SYMBOL** Appears when result is out of the range of your setting reference value.
11. **ALARM FUNCTION SYMBOL** Appears when the clock alarm is set.
12. **TEST STRIP SYMBOL** Appears to tell you when the meter is ready for test.
13. **ERROR SYMBOL** Appears when the strip or meter error.
14. **DAY AVERAGE SYMBOL** Shows the average value of test results from the last 7-, 14- or 30-days.
15. **TEST RESULT AREA** Display test results.

About the TysonBio VIGOR Test Strip

The TysonBio VIGOR Test Strip is used to perform the blood glucose test in conjunction with the TysonBio VIGOR Meter.

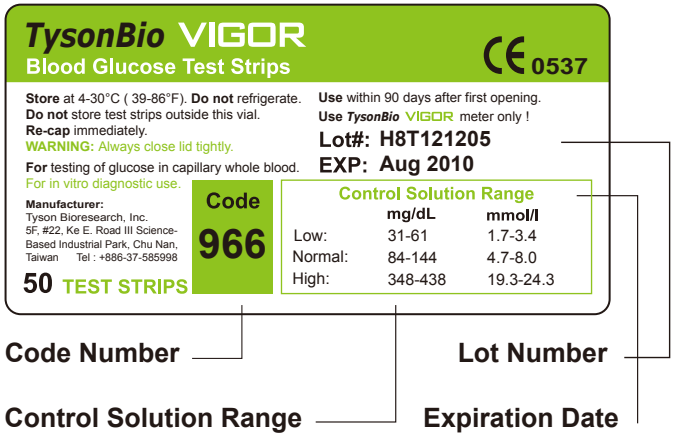


Each strip can be used only once.

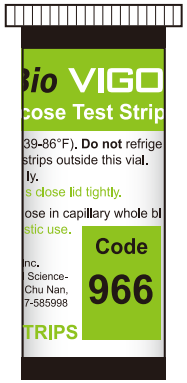
1. **Confirmation Window** This is where you can confirm that enough bloodhas been applied to the target area.
2. **Target Area** This is where blood is drawn into the Test Strip.
3. **Contact Bar** This end of the Test Strip is inserted into the Test Port to activate the TysonBio VIGOR Meter. (white side face up, Front view).

About the TysonBio VIGOR Test Strip Vial

VIAL LABEL

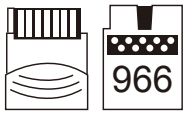


TEST STRIP VIAL



About the Glucode Chip

The Glucode Chip is used to ensure that your TysonBio VIGOR Meter provides you with accurate results. Before performing the blood glucose test or starting a new strip vial, please check your TysonBio VIGOR Meter with the Glucode Chip to ensure proper performance (further instructions for use of the Glucode Chip is provided on page 22-24).



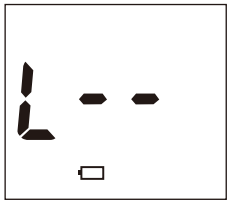
Code Number

Note:

- **Always use the Glucode Chip to ensure your TysonBio VIGOR Meter is performing properly.**
- **DO NOT misplace your Glucode Chip.**

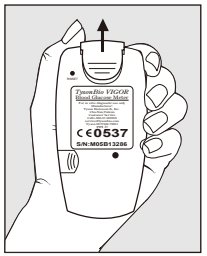
Installing/Replacing the Battery

When the battery is low, the Meter will show a warning signal. When this display appears, it is time to replace a new battery. When the low battery warning signal is shown, the TysonBio VIGOR Meter will provide accurate results for approximately 50 more measurements.



How to Replace the Battery

1. From the back of the Meter, gently slide and remove the battery cover.
2. Insert a 3-Volt Lithium battery (CR-2032) with the "**+**" side facing up.
3. Slide battery cover back into place.

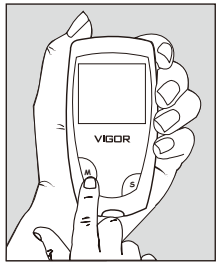


Setting Up the Meter

To turn the Meter on, first insert a battery, then press the reset button located at the back of the Meter and proceed with the following instructions.

Setting Up the Date, Time

1. Press the **M** button for 3 seconds to enter setting mode. Press and release **S** button to choose “24Hr” or “12Hr” display. With your favorite clock mode, press **M** button and the Year setting will be appeared. Press and release the **S** button until the correct year appears.
2. To enter the year and move on to choose the month, press the **M** button. To change the month, press the **S** button.
3. To enter the month and move on to choose the day, press the **M** button. To change the day, press the **S** button.



4. To enter the day and move on to choose the hour setting, press the **M** button.
5. To change the hour, press the **S** button. To enter the hour and move on to change the minutes, press the **M** button.
6. To change the minutes, press the **S** button. To enter the minutes and move on to choose the alarm setting, press the **M** button.

Setting Up the Alarm

7. To set the first alarm, press the **M** button (y). If you press **S** button (n), it will move to health management alarm setting (step 11). To change the hour, press **S** button. To enter the hour and move on to change the minutes, press **M** button. To change the minutes, press **S** button. To enter the minutes and move on to the second alarm setting, press the **M** button. (Fig.1)

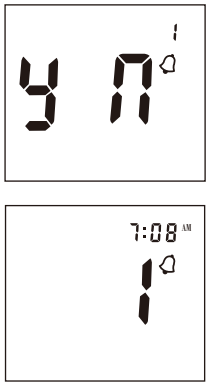


Fig.1

8. To set the second alarm, press the **M** button (y). If you press **S** button (n), it will move to health management alarm setting (step 11). To change the hour, press **S** button. To enter the hour and move on to change the minutes, press **M** button. To change the minutes, press **S** button. To enter the minutes and move on to the third alarm setting, press the **M** button. (Fig.2)

Fig.2

9. To set the third alarm, press the **M** button (y). If you press **S** button (n), it will move to health management alarm setting (step 11). To change the hour, press **S** button. To enter the hour and move on to change the minutes, press **M** button. To change the minutes, press **S** button. To enter the minutes and move on to the fourth alarm setting, press the **M** button. (Fig.3)

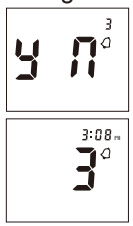


Fig.3

10. To set the fourth alarm, press the **M** button (y). If you press **S** button (n), it will move to health management alarm setting (step 11). To change the hour, press **S** button. To enter the hour and move on to change the minutes, press **M** button. To change the minutes, press **S** button. To enter the minutes and move on to health management "HI alarm setting" press the **M** button. (Fig.4)
    Note: When the alarm is ringing, press S or M button to turn off or meter will turn off alarm automatically after 30 sec.

Fig.4

Setting Up the HI and LO Alarm

11. To change the "HI alarm setting" press the **S** button. To enter the 'HI alarm setting" and move on to "LO alarm setting" press **M** button. (Fig.5)
12. To change the "LO alarm setting" press the **S** button. To enter the "LO alarm setting" and move on to PC link setting, press **M** button. To finish the setting, press **S** button (no) to turn off the meter.

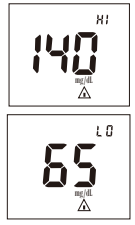


Fig.5

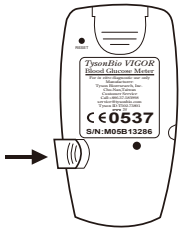
Enter PC Link Mode

13. If you press **M button (yes)**, "PC" link mode for transferring test data will appear. Further instruction on transferring test data, see page 36. Further press **M** button to turn off the meter. (Fig.6)

Fig.6

Measure Unit and Code Setting

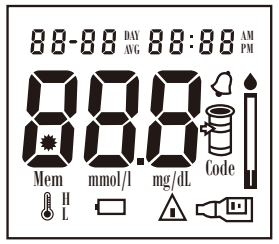
1. The unit is aleardy preset in accordance to the measuring unit commonly used in your country. The mg/dL is the standard unit in the United State. The mmol/L is the standard unit in the most country in Europe.
2. Plug the Glucode Chip into the Glucode Chip slot for strip coding.
   Note: 1mmol/L = 18mg/dL



Checking the Performance of Your TysonBio VIGOR Meter

The Glucode Chip is used for checking and coding your TysonBio VIGOR Meter. To Check your Meter:

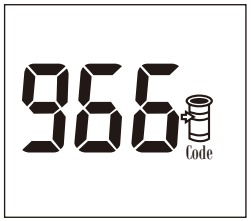
1. Insert the Glucode Chip into meter's Glucode Chip slot. All segments of the LCD display will appear indicating that the TysonBio VIGOR Meter is functioning properly.
2. If you are a first time user or start a new strip vial, please continue the coding procedure.



Coding Your TysonBio VIGOR Meter

Each batch of TysonBio VIGOR Test Strip is encoded with a number that must match one of the code numbers stored in the TysonBio VIGOR Meter. In order to ensure an accurate result, the code number on the display must also match the code number found on the TysonBio VIGOR Test Strip vial.

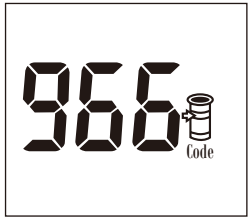
1. Insert the TysonBio VIGOR Glucode Chip, Conductive Bar's end first, into the slot. The TysonBio VIGOR Meter will automatically be turned on.
   Note: Code the TysonBio Meter whenever you start a new test strip vial.



2. All segments of the LCD display will appear indicating that the TysonBio VIGOR Meter is functioning properly. Then a beep will sound, followed by the code number.

Note: If you are using the Meter for the first time without inserting the Glucode Chip, a "000" will appear on the screen and then turn off automatically after 3 sec.

3. Match the code number on the TysonBio VIGOR Meter display with the code number on the Test Strip vial. If the code matches, you may press the M button to turn it off and begin to test lately.



4. If the meter code and vial code do not match, please ask the store/distributor to replace a new vial.

The Control Solution Test

The Control Solution is used to check and to ensure that the TysonBio VIGOR Meter and TysonBio VIGOR Test Strip are working together properly and that you are performing the test correctly.

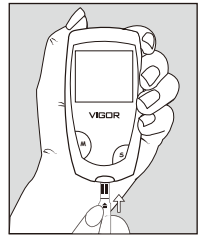
When to perform a Control Solution Test

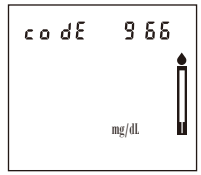
1. When you are using your Blood Glucose Monitoring System for the first time.
2. When you are using a new batch of Test Strips.
3. Anytime you question the performance of the system, or on a regular basis to ensure accuracy, e.g. once a week.
4. When you adjust your diabetic medication plans.
5. When your blood glucose test result is lower or higher than your normal level.

Note: Control Solutions are required but not supplied.

There are three Control Solutions at different desired range of aqueous glucose (Low, Normal or High). Two levels of Control Solutions should be performed. For more information about the Control Solution, Please read your Control Solution package insert.

To Perform a Control Solution test:





1. Make sure the Control Solution is at room temperature prior to testing.

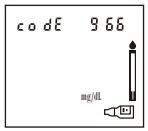
2. Insert a TysonBio VIGOR Test Strip, white side face up, Contact Bar's end first, into the test port. The TysonBio VIGOR Meter will turn on automatically.

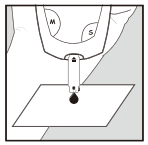
3. All segments of the LCD display will appear, indicating that the TysonBio VIGOR Meter is functioning properly.

4. A beep will sound and the code number will appear followed by a flashing "💧" symbol. Be sure the code number on the display matches the code number on the TysonBio VIGOR Test Strip vial. If the code numbers do not match, code the TysonBio VIGOR Meter by using Glucode Chip, accordingly.

5. After the “ ♦ “ symbol appears, press the S button for 3 sec to switch control solution mode. The “ ⌐■ “ symbol indicates that the Meter will mark your current test as a Control Solution test. Now you are ready to apply the Control Solution.
6. Discard the first drop of Control Solution and squeeze a small drop of Control Solution on a clean nonabsorbent surface (such as a clean piece of wax paper). Do not apply Control Solution to the Test Strip directly from the bottle.
7. Bring the tip of the Test Strip to lightly touch the drop of Control Solution. Control Solution is automatically pulled into the strip through the tip. Hold until the meter beeps. The meter will now being counting down from 8 to 1 and the Control Solution test result will appear.

Caution: Please remember that in order to prevent contamination, follow the above instructions for performing the Control Solution test.





Comparing Control Solution Results

The TysonBio VIGOR is functioning properly if the result falls inside the specified range printed on the Test Strip vial. If the test result falls outside the specified range, repeat the test.

Results falling outside the specified range may be caused by:

- Error in performing the test
- Expired or contaminated Control Solution
- Expired or contaminated TysonBio VIGOR Test Strips
- Improper coding of the TysonBio VIGOR Meter
- TysonBio VIGOR Meter malfunction

Note: The result will not be stored into the memory and will not be incorporated into the average in the Control Solution test “ ⌐■ “ mode. DO NOT use the system if the problem persists.

Please call Tyson Bioresearch, Inc., Customer Service at +886-37-585998 or website of www.tysonbio.com

Testing Your Blood Glucose Level

Before testing blood glucose, you need the following items:

1. TysonBio VIGOR Meter
2. TysonBio VIGOR Test Strip
3. Adjustable Automatic Lancing Device
4. Sterile Lancet
5. Glucode Chip

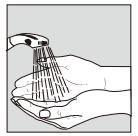
Caution: To reduce the chances of infection:

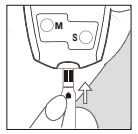
- **Never** share a lancing device and lancet with another person.
- **Always** use a new and sterile lancet. Lancets are for single use only.
- **Always** use a new TysonBio VIGOR Test Strip. Test Strips are for single use only.
- **Do** not get lotion, oil, dirt or debris in or on the lancet and lancing device.

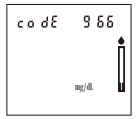
Preparin'g the Test Strip

1. Wash hands using soap and warm water. Rinse and dry thoroughly.
2. Pull out a TysonBio VIGOR Test Strip from the vial and re-cap the vial immediately.
3. Insert the Test Strip white side face up, into the test port.
4. A beep will sound and the code number will appear followed by a flashing " ♦ " symbol. Now you are ready to obtain a blood sample.

Reminder: Make sure that the code number on the display matches the code number displayed on the Test Strip vial. If the code number on the display does not match the code number on the Test Strip vial, code the Meter by using Glucode Chip, accordingly.(See page 23)







Obtaining a Blood Sample

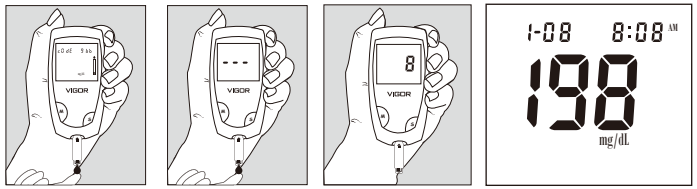
SAMPLE MAY BE OBTAINED FROM FINGER, PALM or FOREARM

For further instructions please see the insert provided with lancing device.

1. Unscrew and remove the endcap of the lancing device.
2. Insert the lancet into the lancet holder.
3. Twist and remove the protective lancet cover to expose the sterile needle tip.
4. Recapping and screwing the endcap to the body of the lancing device.
5. Pull back on the cocking mechanism until it comes to a stop.
6. Place the lancing device firmly against the finger tip and press the release button.
7. After sampling, remove the endcap containing the used lancet carefully.
8. Remove the lancet from the lancing device. Discard the used lancet properly in accordance with local, state, and federal law.

Applying Blood Sample to the TysonBio VIGOR Test Strip

1. After obtaining a blood sample, place the drop onto the test well of the TysonBio VIGOR Test Strip.
2. Blood is automatically drawn into the TysonBio VIGOR Test Strip.
3. As soon as enough blood has filled the Confirmation Window (see picture) of the Test Strip, the TysonBio VIGOR Meter will beep and begin counting down from 8 to 1.
4. Your blood glucose result will appear on the LCD panel and will be stored into the Meter memory automatically.



Note: To ensure accurate results, make sure the Confirmation Window of the Test Strip is completely filled with your blood sample.

5. The TysonBio VIGOR results range between 20 to 600 mg/dL (1.1 to 33.3 mmol/l). If a "**HI**" message appears on your display, your TysonBio VIGOR Meter has detected that your blood glucose level is higher than 600 mg/dL(33.3 mmol/l). It is suggested that you review your testing procedure and test again with a new TysonBio VIGOR Test Strip to confirm the result. If the same result occurs, consult your healthcare professional immediately.(Fig.7)

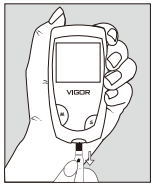
(Fig.7)

6. If a "**LO**" message appears on your display, your TysonBio VIGOR Meter has detected that your blood glucose level is lower than 20 mg/dL (1.1 mmol/l). It is suggested that you review your testing procedure and test again with a new TysonBio VIGOR Test Strip to confirm the result. If the same result occurs, consult your healthcare professional immediately.(Fig.8)

(Fig.8)

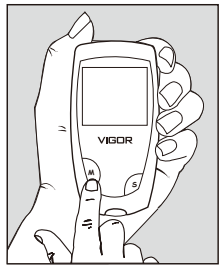
If no further tests are performed, the TysonBio VIGOR Meter will shut off automatically after 4 minutes.

7. After finishing the test, we recommend using a tissue paper to remove TysonBio VIGOR Test Strip from the TysonBio VIGOR Meter for proper disposal.



Memory Features

The TysonBio VIGOR Meter automatically stores the 300 most recent blood glucose results with date and time in its memory. It also provides you with a consecutive 7/14/30-day average of your blood glucose test results.



1. Press the **M** button to turn on the TysonBio VIGOR Meter. All segments of the LCD display will appear. The date and time will appear first.
2. Press **S** button, the result of control solution will appear on display.*
3. Press **S** button, the consecutive 7-day average will be shown.*
4. Press **S** button, the consecutive 14-day average will be shown.*
5. Press **S** button, the consecutive 30-day average will be shown.*

Note : * If there is no test results during this stage, it will directly appear the most recent test result.

6. Press **S** button, the most recent test result will appear. Each time you press the **S** button, the TysonBio VIGOR Meter will recall the last 300 test results accordingly. When the memory is full, the oldest result is removed and replaced with the newest result.

7. Press and release the **S** button to the end of the memory, “000” will show. Then press the **S** button again or **M** button to turn the meter off.

To Record Your Results

We have provided a log book for your recording convenience. To learn more about how to record your results, please refer to the log book for further instructions.

Exiting the Memory Mode

1. Press the **M** button to turn off the meter.
2. Meter will shut down automatically after 4 minutes with no further action.

Note: The consecutive 7/14/30-day average is calculated from the blood glucose results obtained during the last consecutive 7/14/30-day.

Transfer Test Results to a Computer

You can use your meter with TysonBio VIGOR Diabetes Management Software to transfer test results to your personal computer.

1. **Obtain the required software and cable**
   For order information please call Tyson Bioresearch, Inc., Customer Service at +886-37-585998 or website of www.tysonbio.com
2. **Install the software on a computer**
   Follow the instructions provided with software to install the software.
3. **Get ready to transfer test results**
   Setting the meter to the PC link mode, see page.21. “PC” will appear on the display. Connect the interface cable to a serial port on your computer. Then connect the other end of interface cable to the data port located on the side of the meter.

4. **Transfer data**
   Follow the instructions provided in the software to download the results from the meter. After finishing the data transfer, press **M button** to turn off the meter.
   Note: While in the communication mode, you will be unable to perform a blood glucose test. If the meter is not in the PC link mode, it will not respond to computer commands.

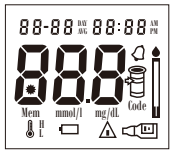
Care and Storage

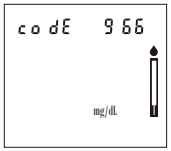
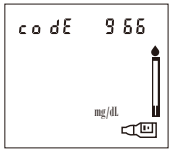
1. Handle the TysonBio VIGOR Meter with care. Dropping or throwing the Meter may cause damage to the device.
2. Do not expose the Meter, Test Strips, and Control Solution to extreme conditions, such as high humidity, heat, freezing cold or dust.
3. Always wash hands with soap and water and rinse and dry completely before handling the Meter and Test Strips.
4. When cleaning the Meter, gently wipe the exterior surface using a damp soft cloth. **DO NOT USE ANY ORGANIC SOLVENT** for cleaning.
5. The Meter should be stored at room temperature in a dry and clean space. **DO NOT STORE IN DIRECT SUNLIGHT OR AREAS WITH HIGH HUMIDITY AND/OR DUST.** It is advised that you store the Meter and its accessories into the provided carrying case.

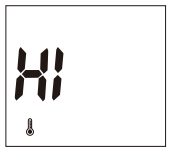
For healthcare professionals using this system on multiple patient, please be aware that all items that come in contact with human blood should be handled as potential biohazards. Users should follow the guidelines for prevention of blood-borne transmittable diseases in a healthcare setting for potentially infectious human blood specimens as recommended in the National Committee for Clinical Laboratory Standards, Protection of Laboratory Workers from Instrument Biohazards and Infectious Disease Transmitted by Blood, Body Fluids and Tissue: Approved Guideline.

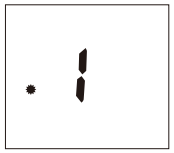
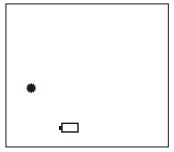
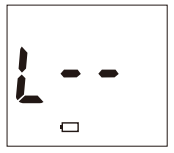
NCCLS document M29-A [ISBN 1-56238-339-6].

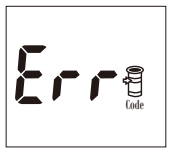
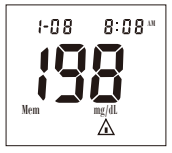
Display Messages

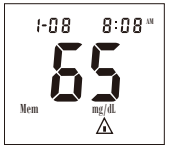
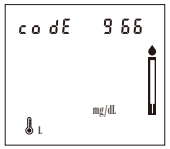
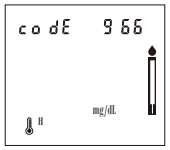
DISPLAY	WHAT IT MEANS	ACTION
	System check for verifying that all segments of the Meter are functioning.	No Action Necessary.
	This message appears immediately if your Meter has not been encoded.	Code Meter. (see page 23)
	This is the current code number in use.	This code number should match the code number printed on your TysonBio VIGOR Test Strip vial.

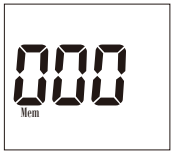
DISPLAY	WHAT IT MEANS	ACTION
	The system is ready to accept a blood sample.	You may now apply a blood sample.
	The system is ready to accept a Control Solution sample.	You may now apply a drop of Control Solution sample.
	TysonBio VIGOR Meter detects blood glucose level is higher than 600 mg/dL(33.3 mmol/l).	Indicates high blood glucose level. Repeat test. If result still occurs, consult your physician immediately.

DISPLAY	WHAT IT MEANS	ACTION
	The TysonBio VIGOR Meter detects blood glucose level is lower than 20 mg/dL (1.1 mmol/l).	Indicates low blood glucose level. Repeat test. If result still occurs, consult your physician immediately.
	Temperature is too low to perform the test.	Repeat the test in a warmer setting (10 - 40°C or 50 - 104°F). Wait 15 minutes before re-testing.
	Temperature is too high to perform the test.	Repeat the test in a cooler setting (10 - 40°C or 50 - 104°F). Wait 15 minutes before re-testing.

DISPLAY	WHAT IT MEANS	ACTION
	An error message indicating a problem with the TysonBio VIGOR Test Strip.	Review the instructions and try again with a new TysonBio VIGOR Test Strip.
	Battery power is too low for further usage.	Replace with a new 3-Volt lithium battery (CR-2032) immediately.
	Battery power is low. Meter will provide approximately 50 more measurements.	Replace with a new 3-Volt lithium battery (CR-2032).

DISPLAY	WHAT IT MEANS	ACTION
	An error message indicating a problem with the coding of TysonBio VIGOR Meter.	Check the meter again with the Glucode Chip. If the problem persists, contact Tyson Biore-search, Inc. Customer Service for help.
	A error message indicating a problem with the TysonBio VIGOR Meter.	Press “reset” button and check the meter again with the Glucode Chip. If the problem persists, contact Tyson Biore-search, Inc. Customer Service for help.
	Indicate the result is HIGHER than the “HI alarm setting” of the health management.	For your reference or you can change the default setting value 100 mg/dL according to page 20.

DISPLAY	WHAT IT MEANS	ACTION
	Indicate the result is LOWER than the “LO alarm setting” of the health management.	For your reference or you can change the default setting value 70 mg/dL according to page 20.
	Temperature is low during the test procedure.	Result may be larger variation. Move to a warmer environment (10 - 40˚C or 50 - 104˚F) and wait 15 minutes before re-testing.
	Temperature is high during the test procedure.	Result may be larger variation. Move to a cooler environment (10 - 40˚C or 50 - 104˚F) and wait 15 minutes before re-testing.

DISPLAY	WHAT IT MEANS	ACTION
	All testing values recorded in the memory have been shown.	Press S button or M button or wait for 4 minutes to turn off the meter.

Other problems hat may occur	ACTION
The TysonBio VIGOR Test Strip has not been inserted into the Meter properly.	Review the instructions and re-insert the Test Strip correctly (white side face up).
Defective TysonBio VIGOR Test Strip.	Replace with a new TysonBio VIGOR Test Strip.
Insufficient blood sample.	Repeat the test with new TysonBio VIGOR Test Strip.
Test Strip remains in the test port for more than 4 minutes prior to testing.	Meter will automatically turn-off. Re-insert the Test Strip to the test port.
LCD Screen on the Meter is blank when trying to perform a test.	Contact Tyson Bioresearch, Inc. Customer Service for help.

Specifications

Operating Conditions:	10°C - 40°C(50°F - 104°F) and 10 - 90% RH
Hematocrit:	35 - 55%
Test Sample:	Capillary Whole Blood from Fingertip, Palm and Forearm
Sample Volume:	>1.5 µl
Measuring Range:	20 - 600 mg/dL (1.1 - 33.3 mmol/L)
Test Time:	10 sec
Memory Capacity:	300 most recent results
Average:	7/14/30 days average results
External Output	Standard RS232 PC interface
Power supply:	3-Volt lithium battery (CR-2032)
Battery Life:	Approximately 1000 tests
Dimension and Weight:	102 x50 x15 mm ; 55 g

■ The TysonBio VIGOR Meter and TysonBio VIGOR Test Strips are in conformity with the IVDD 98/79/EC.

Manufacturer:
Tyson Bioresearch, Inc.
5F. #22, Ke E. Road III, Science-Based
Industrial Park Chu-Nan 350,
Miao-Li County, Taiwan, R.O.C.
TEL: +886 37 585998

Authorized representative in the EU:
Medical Device Safety Service GmbH
Schiffgraben 41, D-30175 Hannover,
Germany
TEL: +49 511 62628630

■ The Lancets are in conformity with the MDD 93/42/EEC.

Manufacturer:
Wuxi Xinda Medical Device Co., Ltd.
No.42 Xixin Road, Zhangjing Town,
Wuxi, Jiangsu,214194,China
TEL: +86-510-379-3149

Authorized Representative in the EU:
EMDAR BV
Ijsselburecht 3, Postbus 5486 6802 EL
Arnhem, Netherlands
TEL: +31-263-653-375

Limitations of the Procedure

Caution: The TysonBio VIGOR System is designed for in vitro use only and is not intended to test on newborns.

The TysonBio VIGOR Test Strips are designed for use with fresh capillary whole blood samples obtained from the fingertip, palm and forearm. False results may occur when performing the test while severely dehydrated, severely hypotensive, in shock or in a hyperglycemic-hyperosmolar state. If you believe you are suffering from any of the above symptoms, consult a healthcare professional immediately.

Service and Warranty

IMPORTANT: The TysonBio VIGOR Blood Glucose Monitoring System is designed for in vitro diagnostic use only. Tyson Bioresearch Inc. cannot endorse the performance of the TysonBio VIGOR System when used with Test Strips other than those designed for the TysonBio VIGOR Meter. The TysonBio VIGOR System manufacturer warranty is valid only when used properly within the guidelines of the provided User's Manual and is invalid when the TysonBio VIGOR System and TysonBio VIGOR Test Strip are used improperly.

Manufacturer Warranty: Tyson Bioresearch, Inc. guarantees that this device will be free of defects in materials and workmanship for a period of three years from the date of original purchase. During the stated three-year period, our company shall repair or replace any TysonBio VIGOR Meter found defective with a new TysonBio VIGOR Meter.

This warranty does not apply to the performance of a TysonBio VIGOR Meter that has been accidentally damaged, altered, misused, tampered with or abused in any way. In no event shall our company be liable to the purchaser or any other person for any incidental, consequential, or punitive damages arising from or in any way connected with the purchase or operation of the TysonBio VIGOR Meter or its parts.

For manufacturer warranty services, purchaser must contact Tyson Bioresearch, Inc. for help.